



PCT

## RAW SEQUENCE LISTING

DATE: 12/08/2004

PATENT APPLICATION: US/09/673,133

TIME: 10:41:40

Input Set : A:\Seq listing.txt

Output Set: N:\CRF4\12082004\I673133.raw

3 <110> APPLICANT: Myers, Lisa E  
4 Schryvers, Anthony B  
5 Harkness, Robin E  
6 Loosmore, Sheena M  
7 Du, Run-Pan  
8 Yang, Yan-Ping  
9 Klein, Michel H  
11 <120> TITLE OF INVENTION: TRANSFERRIN RECEPTOR GENES OF MORAXELLA  
13 <130> FILE REFERENCE: 1038-1102 MIS  
15 <140> CURRENT APPLICATION NUMBER: 09/673,133  
C--> 16 <141> CURRENT FILING DATE: 2000-10-11  
18 <150> PRIOR APPLICATION NUMBER: 09/059,584  
19 <151> PRIOR FILING DATE: 1998-04-14  
21 <150> PRIOR APPLICATION NUMBER: PCT/CA99/00307  
22 <151> PRIOR FILING DATE: 1999-04-12  
24 <160> NUMBER OF SEQ ID NOS: 22  
26 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

586 <210> SEQ ID NO: 7  
587 <211> LENGTH: 702  
588 <212> TYPE: PRT  
589 <213> ORGANISM: Moraxella catarrhalis  
591 <400> SEQUENCE: 7  
592 Met Lys His Ile Pro Leu Thr Thr Leu Cys Val Ala Ile Ser Ala Val  
593 1 5 10 15  
595 Leu Leu Thr Ala Cys Gly Gly Ser Gly Gly Ser Asn Pro Pro Ala Pro  
596 20 25 30  
598 Thr Pro Ile Pro Asn Ala Ser Gly Ser Gly Asn Thr Gly Asn Thr Gly  
599 35 40 45  
601 Asn Ala Gly Gly Thr Asp Asn Thr Ala Asn Ala Gly Asn Thr Gly Gly  
602 50 55 60  
604 Thr Asn Ser Gly Thr Gly Ser Ala Asn Thr Pro Glu Pro Lys Tyr Gln  
605 65 70 75 80  
607 Asp Val Pro Thr Glu Lys Asn Glu Lys Asp Lys Val Ser Ser Ile Gln  
608 85 90 95  
610 Glu Pro Ala Met Gly Tyr Gly Met Ala Leu Ser Lys Ile Asn Leu His  
611 100 105 110  
613 Asn Arg Gln Asp Thr Pro Leu Asp Glu Lys Asn Ile Ile Thr Leu Asp  
614 115 120 125  
616 Gly Lys Lys Gln Val Ala Glu Gly Lys Lys Ser Pro Leu Pro Phe Ser

Does Not Comply  
Corrected Diskette Needed

P2



## RAW SEQUENCE LISTING

DATE: 12/08/2004

PATENT APPLICATION: US/09/673,133

TIME: 10:41:40

Input Set : A:\Seq listing.txt

Output Set: N:\CRF4\12082004\I673133.raw

```
E--> 691      530      535      540
      693 Val Phe Leu Gln Gly Glu Arg Thr Ala Thr Thr Gly Glu Lys Ala Val
E--> 694 545      550      555      560
      696 Pro Thr Thr Gly Thr Ala Lys Tyr Leu Gly Asn Trp Val Gly Tyr Ile
E--> 697      565      570      575
      699 Thr Gly Lys Asp Thr Gly Thr Gly Thr Gly Lys Ser Phe Thr Asp Ala
E--> 700      580      585      590
      702 Gln Asp Val Ala Asp Phe Asp Ile Asp Phe Gly Asn Lys Ser Val Ser
E--> 703      595      600      605
      705 Gly Lys Leu Ile Thr Lys Gly Arg Gln Asp Pro Val Phe Ser Ile Thr
E--> 706      610      615      620
      708 Gly Gln Ile Ala Gly Asn Gly Trp Thr Gly Thr Ala Ser Thr Thr Lys
E--> 709 625      630      635      640
      711 Ala Asp Ala Gly Gly Tyr Lys Ile Asp Ser Ser Ser Thr Gly Lys Ser
E--> 712      645      650      655
      714 Ile Val Ile Lys Asp Ala Asn Val Thr Gly Gly Phe Tyr Gly Pro Asn
E--> 715      660      665      670
      717 Ala Asn Glu Met Gly Gly Ser Phe Thr His Asn Ala Asp Asp Ser Lys
E--> 718      675      680      685
      720 Ala Ser Val Val Phe Gly Thr Lys Arg Gln Gln Glu Val Lys
E--> 721      690      695      700
```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/673,133DATE: 12/08/2004  
TIME: 10:41:41

Input Set : A:\Seq listing.txt

Output Set : N:\CRF4\12082004\I673133.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:3; Line(s) 220,221,222,223,224,225,226,227,228,229,230,231,232,233,234  
Seq#:3; Line(s) 235,236,237,238,239,240,241,242,243,244,245,246,247,248,249  
Seq#:3; Line(s) 250,251,252,253,254,255,256  
Seq#:4; Line(s) 264,265,266,267,268,270,271,273,274,276,277,279,280,282,283  
Seq#:4; Line(s) 285,286,288,289,291,292,294,295,297,298,300,301,303,304,306  
Seq#:4; Line(s) 307,309,310,312,313,315,316,318,319,321,322,324,325,327,328  
Seq#:4; Line(s) 330,331,333,334,336,337,339,340,342,343,345,346,348,349,351  
Seq#:4; Line(s) 352,354,355,357,358,360,361,363,364,366,367,369,370,372,373  
Seq#:4; Line(s) 375,376,378,379,381,382,384,385,387,388,390,391,393,394,396  
Seq#:4; Line(s) 397  
Seq#:5; Line(s) 406,407,408,409,410,411,412,413,414,415,416,417,418,419,420  
Seq#:5; Line(s) 421,422,423,424,425,426,427,428,429,430,431,432,433,434,435  
Seq#:5; Line(s) 436,437,438,439,440,441  
Seq#:6; Line(s) 450,451,453,454,456,457,459,460,462,463,465,466,468,469,471  
Seq#:6; Line(s) 472,474,475,477,478,480,481,483,484,486,487,489,490,492,493  
Seq#:6; Line(s) 495,496,498,499,501,502,504,505,507,508,510,511,513,514,516  
Seq#:6; Line(s) 517,519,520,522,523,525,526,528,529,531,532,534,535,537,538  
Seq#:6; Line(s) 540,541,543,544,546,547,549,550,552,553,555,556,558,559,561  
Seq#:6; Line(s) 562,564,565,567,568,570,571,573,574,576,577,579,580,582,583  
Seq#:7; Line(s) 592,593,595,596,598,599,601,602,604,605,607,608,610,611,613  
Seq#:7; Line(s) 614,616,617,619,620,622,623,625,626,628,629,631,632,634,635  
Seq#:7; Line(s) 636,637,638,640,641,643,644,646,647,649,650,652,653,655,656  
Seq#:7; Line(s) 658,659,661,662,664,666,667,669,670,672,673,675,676,678,679  
Seq#:7; Line(s) 681,682,684,685,687,688,690,691,693,694,696,697,699,700,702  
Seq#:7; Line(s) 703,705,706,708,709,711,712,714,715,717,718,720,721  
Seq#:8; Line(s) 730,731,733,734,736,737,739,740,742,743,745,746,748,749,751  
Seq#:8; Line(s) 752,754,755,757,758,760,761,763,764,766,767,769,770,772,773  
Seq#:8; Line(s) 775,776,778,779,781,782,784,785,787,788,790,791,793,794,796  
Seq#:8; Line(s) 797,799,800,802,803,805,806,808,809,811,812,814,815,817,818  
Seq#:8; Line(s) 820,821,823,824,826,827,829,830,832,833,835,836,838,839,841  
Seq#:8; Line(s) 842,844,845,847,848,850,851,853,854,856,857,859,860,862,863  
Seq#:9; Line(s) 872,873,875,876,878,879,881,882,884,885,887,888,890,891,893  
Seq#:9; Line(s) 894,896,897,899,900,902,903,905,906,908,909,911,912,914,915  
Seq#:9; Line(s) 917,918,920,921,923,924,926,927,929,930,932,933,935,936,938  
Seq#:9; Line(s) 939,941,942,944,945,947,948,950,951,953,954,956,957,959,960  
Seq#:9; Line(s) 962,963,965,966,968,969,971,972,974,975,977,978,980,981,983  
Seq#:9; Line(s) 984,986,987,989,990,992,993,995,996,998,999,1001,1002,1004  
Seq#:9; Line(s) 1005  
Seq#:10; Line(s) 1014,1015,1016,1017,1018,1019,1020,1021,1022,1023,1024  
Seq#:10; Line(s) 1025,1026,1027,1028,1029,1030,1031,1032,1033,1034,1035  
Seq#:10; Line(s) 1036,1037,1038,1039,1040,1041,1042,1043,1044,1045,1046  
Seq#:10; Line(s) 1047,1048,1049,1050,1051,1052,1053,1054,1055,1056,1057  
Seq#:10; Line(s) 1058,1059,1060,1061,1062,1063,1064,1065,1066,1067,1068

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/09/673,133DATE: 12/08/2004  
TIME: 10:41:41

Input Set : A:\Seq listing.txt

Output Set: N:\CRF4\12082004\I673133.raw

Seq#:10; Line(s) 1069,1070,1071,1072,1073,1074,1075,1076,1077,1078,1079  
Seq#:10; Line(s) 1080,1081,1082,1083,1084,1085,1086,1087,1088,1089,1090  
Seq#:10; Line(s) 1091,1092,1093,1094,1095,1096,1097,1098,1099,1100,1101  
Seq#:10; Line(s) 1102,1103,1104,1105,1106,1107,1108,1109,1110,1111,1112  
Seq#:10; Line(s) 1113,1114,1115,1116,1117,1118,1119,1120,1121,1122,1123  
Seq#:10; Line(s) 1124,1125,1126,1127,1128,1129,1130,1131,1132,1133,1134  
Seq#:10; Line(s) 1135,1136,1137,1138,1139,1140,1141,1142,1143,1144,1145  
Seq#:10; Line(s) 1146,1147,1148,1149,1150,1151

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/673,133

DATE: 12/08/2004

TIME: 10:41:41

Input Set : A:\Seq listing.txt

Output Set: N:\CRF4\12082004\I673133.raw

L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:667 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:7

M:332 Repeated in SeqNo=7

L:721 M:252 E: No. of Seq. differs, <211> LENGTH:Input:702 Found:686 SEQ:7